Abstract

This paper presents the basic problems encountered in the process of expert knowledge extraction. Several experiments were carried out to compare the effectiveness of using linguistic and color data during this process. Particular attention was given to the color spectrum sets, and an example of how they can be applied in the rough sets theory is provided. The main purpose of the paper is to prove that the color spectrum scale more closely reflects people’s opinions than the linguistic scale does and that it is possible to effectively integrate the color spectrum scale with the rough sets theory to extract expert knowledge. The experiments were conducted on a group of real estate specialists to obtain knowledge rules during the process of buying a building plot. Opinions were collected by questionnaire and interview. The experiments confirmed the hypothesis.

References


Integration of the Visible Color Spectrum and the Rough Sets Theory in the Process of Expert Knowledge Extraction


Index Terms

Computer Science

Artificial Intelligence
Keywords

Rough Sets  Color Coding  Knowledge Extraction